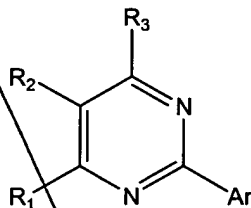


B1
R₁ and R₃ are independently chosen from hydrogen, bromo, fluoro, iodo, cyano, nitro, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted (cycloalkyl)alkyl, optionally substituted alkylthio, optionally substituted alkylsulfinyl, optionally substituted alkylsulfonyl, or optionally substituted mono- or dialkylcarboxamide, with the proviso that R₁ and R₃ are not both hydrogen; and

Sub E1
R₂ is optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted aminoalkyl, optionally substituted mono or dialkylamino, optionally substituted alkylthio, optionally substituted alkylsulfinyl, optionally substituted alkylsulfonyl, optionally substituted mono or dialkylcarboxamide, optionally substituted carbocyclic aryl or optionally substituted heteroaryl having from 1 to 3 rings, and 3 to 8 ring members in each ring and 1 to about 3 heteroatoms.

2. (amended) A compound of the formula:



or a pharmaceutically acceptable salt thereof, wherein:

Ar is phenyl which is mono-, di-, or tri-substituted;

R₁ and R₃ are independently chosen from hydrogen, bromo, fluoro, iodo, cyano, nitro, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted (cycloalkyl)alkyl, optionally substituted alkylthio, optionally substituted alkylsulfinyl, or optionally substituted alkylsulfonyl, and optionally substituted mono or dialkylcarboxamide, with the proviso that R₁ and R₃ are not both hydrogen; and

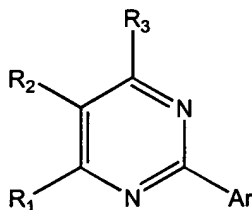
BI
Sub
E1

~~R₂ is optionally substituted alkyl, optionally substituted alkoxy, optionally substituted aminoalkyl, optionally substituted mono or dialkylamino, optionally substituted alkylthio, optionally substituted alkylsulfinyl, optionally substituted alkylsulfonyl, optionally substituted mono or dialkylcarboxamide, or~~

~~R₂ is selected from the group consisting of phenyl, naphthyl, pyridyl, pyrimidinyl, pyridizynyl, and thiophenyl, each of which is optionally mono-, di-, or tri-substituted.~~

end
C2

3. (amended) A compound of the formula



or a pharmaceutically acceptable salt thereof, wherein:

R₁ and R₃ are independently selected from hydrogen, bromo, fluoro, iodo, cyano, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (C₃₋₇cycloalkyl₁)C₁₋₄alkyl, (C₃₋₇cycloalkyl₁)C₂₋₄alkenyl, (C₃₋₇cycloalkyl₁)C₂₋₄alkynyl, -O(C₃₋₇cycloalkyl₁)C₁₋₄alkyl, -O(C₃₋₇cycloalkyl₁)C₂₋₄alkenyl, -O(C₃₋₇cycloalkyl₁)C₂₋₄alkynyl, halo(C₁₋₆)alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, -O(halo(C₁₋₆)alkyl), -O(halo(C₂₋₆)alkenyl), -O(halo(C₂₋₆)alkynyl), -O(C₁₋₆alkyl), -O(C₂₋₆alkenyl), -O(C₂₋₆alkynyl), S(O)_n(C₁₋₆alkyl), S(O)_n(C₂₋₆alkenyl), and S(O)_n(C₂₋₆alkynyl),

where each alkyl, or alkenyl is independently straight, branched, or cyclic, and each alkynyl is straight or branched, and is optionally substituted with one or more substituents independently chosen from halogen, hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino,

and

where each C₃₋₇cycloalkyl₁ is optionally substituted by one or more substituents independently chosen from halogen, hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino,

with the proviso that not both R_1 and R_3 are hydrogen;

R_2 is selected from the group consisting of $-XR_A$ and Y ; and

Ar is selected from the group consisting of phenyl, naphthyl, pyridyl, pyrimidinyl, pyridizynyl, and thiophenyl, each of which is mono-, di-, or tri-substituted with R_C ;

R_A and R_B , which may be the same or different, are independently selected at each occurrence from:

hydrogen, straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from oxo, hydroxy, halogen, cyano, amino, C_{1-6} alkoxy, $-NH(C_{1-6}alkyl)$, $-N(C_{1-6}alkyl)(C_{1-6}alkyl)$, $-NHC(=O)(C_{1-6}alkyl)$, $-N(C_{1-6}alkyl)C(=O)(C_{1-6}alkyl)$, $-NHS(O)_n(C_{1-6}alkyl)$, $-S(O)_n(C_{1-6}alkyl)$, $-S(O)_nNH(C_{1-6}alkyl)$, $-S(O)_nN(C_{1-6}alkyl)(C_{1-6}alkyl)$, and Z ;

R_C is independently selected at each occurrence from halogen, cyano, halo(C_{1-6})alkyl, halo(C_{1-6})alkoxy, hydroxy, amino, C_{1-6} alkyl substituted with 0-2 R_D , C_{2-6} alkenyl substituted with 0-2 R_D , C_{2-6} alkynyl substituted with 0-2 R_D , C_{3-7} cycloalkyl substituted with 0-2 R_D , (C_{3-7} cycloalkyl) C_{1-4} alkyl substituted with 0-2 R_D , C_{1-6} alkoxy substituted with 0-2 R_D , $-NH(C_{1-6}alkyl)$ substituted with 0-2 R_D , $-N(C_{1-6}alkyl)(C_{1-6}alkyl)$ each $C_{1-6}alkyl$ independently substituted with 0-2 R_D , $-XR_A$, and Y ;

R_D is independently selected at each occurrence from the group consisting of halogen, hydroxy, cyano, amino, C_{1-4} alkyl, $-O(C_{1-4}alkyl)$, $-NH(C_{1-4}alkyl)$, $-N(C_{1-4}alkyl)(C_{1-4}alkyl)$, $-S(O)_n(alkyl)$, halo(C_{1-4})alkyl, halo(C_{1-4})alkoxy, $CO(C_{1-4}alkyl)$, $CONH(C_{1-4}alkyl)$, $CON(C_{1-4}alkyl)(C_{1-4}alkyl)$, $-XR_A$, and Y ;

X is independently selected at each occurrence from the group consisting of $-CH_2-$, $-CHR_B-$, $-O-$, $-C(=O)-$, $-C(=O)O-$, $-S(O)_n-$, $-NH-$, $-NR_B-$, $-C(=O)NH-$, $-C(=O)NR_B-$, $-S(O)_nNH-$, $-S(O)_nNR_B-$, $-OC(=S)S-$, $-NHC(=O)-$, $-NR_BC(=O)-$, $-NHS(O)_n-$, $-OSiH_n(C_{1-4}alkyl)_{2-n}-$, and $-NR_BS(O)_n-$;

B1
C2
cont
Y and Z are independently selected at each occurrence from: 3- to 7-membered carbocyclic or heterocyclic groups which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, amino, cyano, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), and -S(O)_n(alkyl),

said 3- to 7-membered heterocyclic groups containing one or more heteroatom(s) independently selected from N, O, and S, with the point of attachment being either carbon or nitrogen; and

n is independently selected at each occurrence from 0, 1, and 2.

B1
Sub E1
7. (amended) A compound or salt according to Claim 3, wherein:

Ar is phenyl mono-, di-, or tri-substituted with R_C; and

R_A and R_B, which may be the same or different, are independently selected at each occurrence from:

straight, branched, or cyclic alkyl groups having from 1 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms.

8. (amended) A compound or salt according to Claim 3, wherein:

Ar is phenyl mono-, di-, or tri-substituted with R_C;

R_A and R_B, which may be the same or different, are independently selected at each occurrence from:

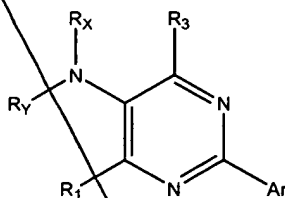
straight, branched, or cyclic alkyl groups having from 1 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms; and

R₁ and R₃ are independently selected from the group consisting of halogen,

Sub E1
B2
C3

C₁₋₃alkyl, C₁₋₃alkoxy, (C₃₋₇cycloalkyl)C₁₋₃alkyl, (C₃₋₇cycloalkyl) C₁₋₃alkoxy, each of which is unsubstituted or substituted by 1-3 groups independently chosen from hydroxy, amino, cyano, and halogen.

9. (amended) A compound of Formula A



Formula A

or a pharmaceutically acceptable salt thereof, wherein:

R_X and R_Y are the same or different and are independently selected from:

- hydrogen,
- (C=O)alkyl_A, wherein alkyl_A is a straight or branched alkyl group having from 1 to 8 carbon atoms;
- straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, cycloalkyl(alkyl)groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from:
 - hydroxy, halogen, amino, cyano, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -NH(C₁₋₄alkyl)(C₁₋₄alkyl), and
 - 3- to 7-membered carbocyclic and heterocyclic groups, which are saturated, unsaturated, or aromatic, which may be substituted with one or more substituents independently selected from halogen, halo(C₁₋₄alkyl), halo(C₁₋₄alkoxy), oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), and -S(O)_n(alkyl), wherein said 3- to 7-membered heterocyclic groups

B²
C³
cont

contain one or more heteroatom(s) independently selected from N, O, and S, with the point of attachment being either carbon or nitrogen,

R₁ and R₃ are independently selected from hydrogen, halogen, cyano, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, (C₃₋₇cycloalkyl₁)C₁₋₄alkyl, (C₃₋₇cycloalkyl₁)C₂₋₄alkenyl, (C₃₋₇cycloalkyl₁) C₂₋₄alkynyl, -O(C₃₋₇cycloalkyl₁)C₁₋₄alkyl, -O(C₃₋₇cycloalkyl₁)C₂₋₄alkenyl, -O(C₃₋₇cycloalkyl₁) C₂₋₄alkynyl, halo(C₁₋₆)alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, -O(halo(C₁₋₆)alkyl), -O(halo(C₂₋₆)alkenyl), -O(halo(C₂₋₆)alkynyl), -O(C₁₋₆alkyl), -O(C₂₋₆alkenyl), -O(C₂₋₆alkynyl), S(O)_n(C₁₋₆alkyl, S(O)_n(C₂₋₆alkenyl), and S(O)_n(C₂₋₆alkynyl),

where each alkyl, or alkenyl is independently straight, branched, or cyclic, and each alkynyl is straight or branched, and is optionally substituted by one or more substituents independently chosen from halogen, hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino,

and

where said C₃₋₇cycloalkyl₁ is optionally substituted by one or more substituents independently chosen from halogen, hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino

with the proviso that not both R₁ and R₃ are hydrogen;

Ar is selected from the group consisting of phenyl, naphthyl, pyridyl, pyrimidinyl, and thiophenyl, each of which is mono-, di-, or tri-substituted with R_C;

R_A and R_B, which may be the same or different, are independently selected at each occurrence from the group consisting of:

hydrogen, straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, and straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from oxo, hydroxy, halogen, nitro, cyano, C₁₋₆alkoxy, -NH(C₁₋₆alkyl), -N(C₁₋₆alkyl)(C₁₋₆alkyl), -NHC(=O)(C₁₋₆alkyl), -N(C₁₋

~~$\text{C}_6\text{alkyl})\text{C}(=\text{O})(\text{C}_{1-6}\text{alkyl}), -\text{NHS}(\text{O})_n(\text{C}_{1-6}\text{alkyl}), -\text{S}(\text{O})_n(\text{C}_{1-6}\text{alkyl}), -\text{S}(\text{O})_n\text{NH}(\text{C}_{1-6}\text{alkyl}), -\text{S}(\text{O})_n\text{N}(\text{C}_{1-6}\text{alkyl})(\text{C}_{1-6}\text{alkyl}),$ and Z;~~

~~R_C is independently selected at each occurrence from halogen, cyano, halo(C_{1-6})alkyl, halo(C_{1-6})alkoxy, hydroxy, amino, and C_{1-6} alkyl substituted with 0-2 R_D , C_{2-6} alkenyl substituted with 0-2 R_D , C_{2-6} alkynyl substituted with 0-2 R_D , C_{3-7} cycloalkyl substituted with 0-2 R_D , (C_{3-7} cycloalkyl) C_{1-4} alkyl substituted with 0-2 R_D , C_{1-6} alkoxy substituted with 0-2 R_D , $-\text{NH}(\text{C}_{1-6}\text{alkyl})$ substituted with 0-2 R_D , $-\text{N}(\text{C}_{1-6}\text{alkyl})(\text{C}_{1-6}\text{alkyl})$ each C_{1-4} alkyl independently substituted with 0-2 R_D , $-\text{X}\text{R}_A$, and Y, with the proviso that at least one of the positions ortho or para to the point of attachment of Ar to the pyrimidine ring shown in Formula A is substituted;~~

~~R_D is independently selected at each occurrence the group consisting of halogen, hydroxy, cyano, C_{1-4} alkyl, $-\text{O}(\text{C}_{1-4}\text{alkyl})$, $-\text{NH}(\text{C}_{1-4}\text{alkyl})$, $-\text{N}(\text{C}_{1-4}\text{alkyl})(\text{C}_{1-4}\text{alkyl})$, $-\text{S}(\text{O})_n(\text{alkyl})$ halo(C_{1-4})alkyl, halo(C_{1-4})alkoxy, $\text{CO}(\text{C}_{1-4}\text{alkyl})$, $\text{CONH}(\text{C}_{1-4}\text{alkyl})$, $\text{CON}(\text{C}_{1-4}\text{alkyl})(\text{C}_{1-4}\text{alkyl})$, $-\text{X}\text{R}_A$, and Y;~~

~~X is independently selected at each occurrence from the group consisting of $-\text{CH}_2-$, $-\text{CHR}_B-$, $-\text{O}-$, $-\text{C}(=\text{O})-$, $-\text{C}(=\text{O})\text{O}-$, $-\text{S}(\text{O})_n-$, $-\text{NH}-$, $-\text{NR}_B-$, $-\text{C}(=\text{O})\text{NH}-$, $-\text{C}(=\text{O})\text{NR}_B-$, $-\text{S}(\text{O})_n\text{NH}-$, $-\text{S}(\text{O})_n\text{NR}_B-$, $-\text{OC}(=\text{S})\text{S}-$, $-\text{NHC}(=\text{O})-$, $-\text{NR}_B\text{C}(=\text{O})-$, $-\text{NHS}(\text{O})_n-$, $-\text{OSiH}_n(\text{C}_{1-4}\text{-alkyl}_{2-n})-$, and $-\text{NR}_B\text{S}(\text{O})_n-$;~~

~~Y and Z are independently selected at each occurrence from the group consisting of: 3- to 7-membered carbocyclic and heterocyclic groups, which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, amino, C_{1-4} alkyl, $-\text{O}(\text{C}_{1-4}\text{alkyl})$, $-\text{NH}(\text{C}_{1-4}\text{alkyl})$, $-\text{N}(\text{C}_{1-4}\text{alkyl})(\text{C}_{1-4}\text{alkyl})$, and $-\text{S}(\text{O})_n(\text{alkyl})$; and~~

~~n is 0, 1, or 2.~~

10. (amended) A compound or salt according to Claim 9, wherein:

R_X and R_Y are the same or different and are independently selected from:

- a) $-(\text{C}=\text{O})\text{alkyl}_A$, wherein alkyl_A is a straight or branched alkyl group having from 1 to 8 carbon atoms;

B²
C³
Cont

b) straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from:

- i) hydroxy, halogen, amino, cyano, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -NH(C₁₋₄alkyl)(C₁₋₄alkyl), and
- ii) 3- to 7-membered carbocyclic and heterocyclic groups, which are saturated, unsaturated, or aromatic, which may be substituted with one or more substituents independently selected from halogen, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), and -S(O)_n(alkyl), wherein said 3- to 7-membered heterocyclic groups contain one or more heteroatom(s) independently selected from N, O, and S, with the point of attachment being either carbon or nitrogen,

R₁ and R₃ are independently selected from hydrogen, halogen, cyano, C₁₋₆ alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, (C₃₋₇cycloalkyl₁)C₁₋₄alkyl, (C₃₋₇cycloalkyl₁)C₂₋₄alkenyl, (C₃₋₇cycloalkyl₁) C₂₋₄alkynyl, -O(C₃₋₇cycloalkyl₁)C₁₋₄alkyl, -O(C₃₋₇cycloalkyl₁)C₂₋₄alkenyl, -O(C₃₋₇cycloalkyl₁) C₂₋₄alkynyl, halo(C₁₋₆)alkyl, haloC₂₋₆alkenyl, haloC₂₋₆alkynyl, -O(halo(C₁₋₆)alkyl), -O(halo(C₂₋₆)alkenyl), -O(halo(C₂₋₆)alkynyl), -O(C₁₋₆alkyl), -O(C₂₋₆alkenyl), and -O(C₂₋₆alkynyl),

where each alkyl, or alkenyl is independently straight, branched, or cyclic, and each alkynyl is straight or branched, and is optionally substituted by one or more substituents independently chosen from halogen, hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino,

and

where said C₃₋₇cycloalkyl₁ is optionally substituted by one or more substituents independently chosen from halogen, hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino

B² Ar is phenyl, which is mono-, di-, or tri-substituted with R_C;

C³ cont R_A and R_B, which may be the same or different, are independently selected at each occurrence from the group consisting of:

hydrogen, straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, and straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from oxo, hydroxy, halogen, nitro, cyano, C₁₋₆alkoxy, -NH(C₁₋₆alkyl), -N(C₁₋₆alkyl)(C₁₋₆alkyl), -NHC(=O)(C₁₋₆alkyl), -N(C₁₋₆alkyl)C(=O)(C₁₋₆alkyl), and Z;

R_C is independently selected at each occurrence from halogen, cyano, halo(C₁₋₆)alkyl, halo(C₁₋₆)alkoxy, hydroxy, amino, and C₁₋₆alkyl substituted with 0-2 R_D, C₂₋₆ alkenyl substituted with 0-2 R_D, C₂₋₆alkynyl substituted with 0-2 R_D, C₃₋₇cycloalkyl substituted with 0-2 R_D, (C₃₋₇cycloalkyl)C₁₋₄alkyl substituted with 0-2 R_D, C₁₋₆alkoxy substituted with 0-2 R_D, -NH(C₁₋₆alkyl) substituted with 0-2 R_D, -N(C₁₋₆alkyl)(C₁₋₆alkyl) each C₁₋₄alkyl independently substituted with 0-2 R_D, -XR_A, and Y, with the proviso that at least one of the positions ortho or para to the point of attachment of Ar to the pyrimidine ring shown in Formula A is substituted;

R_D is independently selected at each occurrence the group consisting of halogen, hydroxy, cyano, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, CO(C₁₋₄alkyl), CONH(C₁₋₄alkyl), CON(C₁₋₄alkyl)(C₁₋₄alkyl), -XR_A, and Y;

X is independently selected at each occurrence from the group consisting of -CH₂-, -CHR_B-, -O-, -C(=O)-, -C(=O)O-, -NH-, -NR_B-, -C(=O)NH-, -C(=O)NR_B-, -NHC(=O)-, and -NR_BC(=O)-;

B²
C³
cont

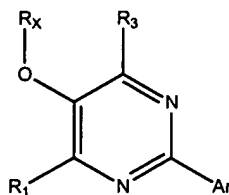
Y and Z are independently selected at each occurrence from the group consisting of: 3- to 7-membered carbocyclic and heterocyclic groups, which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -N(C₁₋₄alkyl)(C₁₋₄alkyl); and
n is 0, 1, or 2.

B³
C⁴

13. (amended) A compound or salt according to claim 9, wherein:
Ar is phenyl mono-, di-, or tri-substituted with R_C,
R_X and R_Y, which may be the same or different, are independently selected at each occurrence from
straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms; and
R₁ and R₃ are independently selected from the group consisting of hydrogen, halogen, C₁₋₄alkoxy, halo(C₁₋₄)alkyl, (halo(C₁₋₄)alkoxy, C₁₋₆alkyl, which C₁₋₆alkyl is unsubstituted or substituted by one to three substituents independently selected from hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino, (C₃₋₇cycloalkyl)C₁₋₄alkyl, which (C₃₋₇cycloalkyl)C₁₋₄alkyl is unsubstituted or substituted by one to three substituents independently selected from hydroxy, oxo, cyano, C₁₋₄alkoxy, amino, and mono- or di(C₁₋₄)alkylamino.

B⁴
C⁴
cont

15. (amended) A compound or salt according to claim 3, of the formula



wherein:

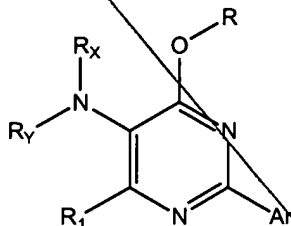
R_x is chosen from

straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from:

(a) hydroxy, halogen, amino, cyano, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -NH(C₁₋₄alkyl)(C₁₋₄alkyl), and

(b) 3- to 7-membered carbocyclic and heterocyclic groups, which are saturated, unsaturated, or aromatic, which may be substituted with one or more substituents selected from halogen, halo(C₁₋₄)alkyl, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), wherein said 3- to 7-membered heterocyclic groups contain one or more heteroatom(s) selected from N, O, and S, with the point of attachment being either carbon or nitrogen.

17. (amended) A compound or salt according to Claim 3 of Formula B:



FORMULA B

Ar is phenyl mono-, di-, or tri-substituted with R_C;

B5
C5
conf
R is selected from straight, branched, or cyclic alkyl groups, (cycloalkyl)alkyl groups, straight, branched, or cyclic alkenyl groups, or straight or branched alkynyl groups, and which are optionally substituted by one or more substituents independently chosen from oxo, hydroxy, halogen, cyano, -O(C₁₋₄ alkyl), amino, -NH(C₁₋₄ alkyl), and -N(C₁₋₄ alkyl)(C₁₋₄ alkyl);

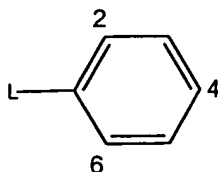
R₁ is selected from hydrogen, halogen, cyano, C₁₋₄ alkyl, (C₃₋₇cycloalkyl)C₁₋₄alkyl, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, and -O(C₁₋₄alkyl); and

R_X and R_Y are the same or different and are independently selected from:

- a) hydrogen,
- b) -(C=O)alkyl_A, wherein alkyl_A is a straight or branched alkyl group having from 1 to 8 carbon atoms;
- c) straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, each of which may be further substituted with one or more substituent(s) independently selected from (i)hydroxy, halogen, amino, cyano, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -NH(C₁₋₄alkyl)(C₁₋₄alkyl), and (ii)3- to 7-membered carbocyclic and heterocyclic groups, which are saturated, unsaturated, or aromatic, which may be substituted with one or more substituents selected from halogen, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), and -S(O)_n(alkyl), wherein said 3- to 7-membered heterocyclic groups contain one or more heteroatom(s) independently selected from N, O, and S, with the point of attachment being either carbon or nitrogen.

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C6
19. (amended) A compound or salt according to Claim 17, wherein

Ar is a phenyl group of the formula:



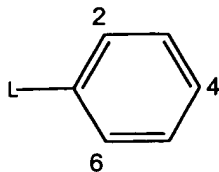
wherein L indicates a bond to the pyrimidine ring in Formula B
and the Ar phenyl group is substituted at one, two, or three of positions 2, 4, and 6 with
substituents independently selected from:

- i) halogen, cyano, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, hydroxy, amino, C₁₋₆ alkyl, C₁₋₆alkoxy, (C₁₋₄alkoxy)C₁₋₄alkoxy, and mono- or di(C₁₋₄alkyl)amino,
- ii) C₁₋₆ alkyl and C₁₋₆alkoxy which are further substituted with a 3- to 7-membered carbocyclic and heterocyclic group, which is saturated, unsaturated, or aromatic, which 3- to 7-membered carbocyclic and heterocyclic group may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -N(C₁₋₄alkyl)(C₁₋₄alkyl);

R_X and R_Y are the same or different and are independently selected from the group consisting of:

- a) hydrogen (with the proviso that R_X and R_Y are not both hydrogen),
- b) -(C=O)alkyl_A, wherein alkyl_A is a straight or branched alkyl group having from 1 to 8 carbon atoms;
- c) straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms, which may be further substituted with one or more substituent(s) independently selected from hydroxy, halogen, amino, cyano, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -NH(C₁₋₄alkyl)(C₁₋₄alkyl).

20. (amended) A compound or salt according to Claim 17, wherein
Ar is a phenyl group of the formula:



wherein L indicates a bond to the pyrimidine ring in Formula B

and the Ar phenyl group is substituted at one, two, or three of positions 2, 4, and 6 with substituents independently selected from:

i) halogen, cyano, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, hydroxy, amino, C₁₋₆ alkyl, C₁₋₆alkoxy, (C₁₋₄alkoxy)C₁₋₄alkoxy, and mono- or di(C₁₋₄alkyl)amino,

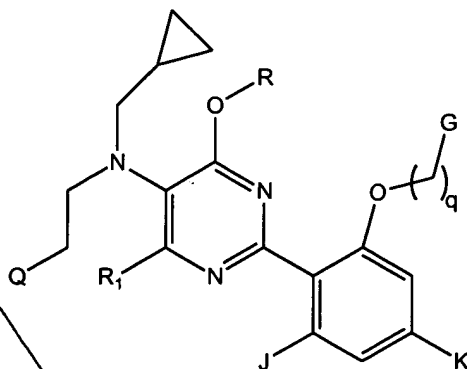
ii) C₁₋₆ alkyl and C₁₋₆alkoxy which are further substituted with a 3- to 7-membered carbocyclic and heterocyclic group, which is saturated, unsaturated, or aromatic, which 3- to 7-membered carbocyclic and heterocyclic group may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), and -N(C₁₋₄alkyl)(C₁₋₄alkyl);

R_X and R_Y are the same or different and are independently selected from the group consisting of:

- hydrogen (with the proviso that R_X and R_Y are not both hydrogen),
- (C=O)alkyl_A, wherein alkyl_A is a straight or branched alkyl group having from 1 to 8 carbon atoms;
- straight, branched, or cyclic alkyl groups consisting of 1 to 8 carbon atoms, (cycloalkyl)alkyl groups consisting of 3 to 8 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 8 carbon atoms, or straight or branched alkynyl groups consisting of 2 to 8 carbon atoms.

22. (amended) A compound or salt according to Claim 17, of the formula:

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wherein:

Q is hydrogen, C₃₋₇ cycloalkyl, pyrrolidinyl, piperidinyl, morpholino, or piperazinyl;

q is an integer from 1 to 4;

G is hydrogen, hydroxy, C₁₋₆alkoxy, -NH(C₁₋₆alkyl), -N(C₁₋₆alkyl)(C₁₋₆alkyl), or a 3- to 7-membered carbocyclic or heterocyclic group, which is saturated, unsaturated, or aromatic, which is unsubstituted or substituted with one or more substituents independently selected from halogen, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, oxo, hydroxy, amino, C₁₋₄alkyl, -O(C₁₋₄alkyl), -NH(C₁₋₄alkyl), -N(C₁₋₄alkyl)(C₁₋₄alkyl), and -S(O)_n(alkyl), wherein said 3- to 7-membered heterocyclic group contains one or more heteroatom(s) independently selected from N, O, and S, with the point of attachment being either carbon or nitrogen;

J and K are independently selected from halogen, cyano, halo(C₁₋₄)alkyl, halo(C₁₋₄)alkoxy, hydroxy, amino, C₁₋₆ alkyl, C₁₋₄alkyl, C₁₋₄alkoxy, (C₁₋₄alkoxy) C₁₋₄alkoxy, and mono- or di(C₁₋₄alkyl)amino; and

R_X and R_Y are the same or different and are independently selected from hydrogen (with the proviso that R_X and R_Y are not both hydrogen), straight, branched, or cyclic alkyl groups having from 1 to 6 carbon atoms, straight, branched, or cyclic alkenyl groups consisting of 2 to 6 carbon atoms, and straight or branched alkynyl groups consisting of 2 to 6 carbon atoms.